



## **NPDES GENERAL PERMIT**

**for**

### **WATER TREATMENT PLANT DISCHARGES WITH THE MEDIAN TOTAL RESIDUAL CHLORINE LIMITS**

**This permit authorizes water treatment plant discharges to waters of the State of South Carolina in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I through X hereof. This permit is issued in accordance with the provisions of the Pollution Control Act (S. C. Code Sections 48-1-10 *et seq.*, 1976) and with the provisions of the Federal Clean Water Act (PL 92-500), as amended, 33 U.S.C. 1251 *et seq.*, the "CWA."**

---

**Jeffrey P. deBessonnet**  
**Director, Water Facilities Permitting Division**  
**Bureau of Water**

**Issued: October 1, 2001**

**Expires: October 31, 2006**

**Effective: November 1, 2001**

**Permit No.: SCG643000**

## TABLE OF CONTENTS

### PREFACE

#### Part I. DEFINITIONS

#### Part II. COVERAGE UNDER THIS PERMIT

- A. Permit Area.
- B. Eligibility.
- C. Authorization.

#### Part III. NOTICE OF INTENT REQUIREMENTS

- A. Deadlines for Notification.
- B. Contents of Notice of Intent.
- C. Where to Submit.
- D. Renotification.
- E. Individual Applications.
- F. Transfer of Ownership or Control.

#### Part IV. MONITORING AND REPORTING REQUIREMENTS

- A. Facilities Required to Monitor.
- B. Representative Sampling.
- C. Discharge Flow Measurement.
- D. Reporting Results.
- E. Additional Monitoring by Permittee.
- F. Retention of Records.
- G. Procedures for Monitoring.
- H. Records Contents.
- I. Availability of Reports.

#### Part V. STANDARD PERMIT CONDITIONS

- A. Duty to Comply.
- B. Duty to Reapply
- C. Continuation of the Expired Permit.
- D. Need to Halt or Reduce Activity not a Defense.
- E. Duty to Mitigate.
- F. Proper Operation and Maintenance.
- G. Property Rights.
- H. Duty to Provide Information.
- I. Inspection and Entry.
- J. Signatory Requirement.
- K. Reporting Requirements.

- L. Bypass.
- M. Upset.
- N. Permit Actions.
- O. Misrepresentation of Information.
- P. Oil and Hazardous Substance Liability.
- Q. Changes in Discharge of Toxic Pollutants or Hazardous Substances.
- R. Onshore and Offshore Construction.
- S. Requirements for an Individual Permit or an Alternative General Permit.
- T. State/Environmental Laws.
- U. Areawide Water Quality Management Plan Conformance.
- V. Removed Substances.

Part VI. REOPENER CLAUSE

Part VII. TERMINATION OF COVERAGE

- A. Notice of Termination.
- B. Address.

Part VIII. SEVERABILITY

Part IX. SPECIAL CONDITIONS

- A. Prohibition of Other Discharges.
- B. Releases in Excess of Reportable Quantities.
- C. Best Management Practices Plans.
- D. Activities Identified under Part II.B.4.e.

Part X. NUMERIC EFFLUENT LIMITATIONS

- A. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Aluminum Based Coagulants With Median TRC Limits which Discharge into FRESHWATER (FW).
- B. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Aluminum Based Coagulants With Median TRC Limits which Discharge into FRESHWATER with site specific standards (FW\*).
- C. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Aluminum Based Coagulants With Median TRC Limits which Discharge into Saltwaters (Class SA & SB).

- D. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Filtration for Iron Removal or Iron Based Coagulants With Median TRC Limits which Discharge into FRESHWATER (FW).
- E. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Filtration for Iron Removal or Iron Based Coagulants With Median TRC Limits which Discharge into FRESHWATER with site specific standards (FW\*).
- F. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Filtration for Iron Removal or Iron Based Coagulants With Median TRC Limits which Discharge into Saltwaters (Class SA & SB).
- G. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Polymer Based Coagulants With Median TRC Limits which Discharge into FRESHWATER (FW).
- H. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Polymer Based Coagulants With Median TRC Limits which Discharge into FRESHWATER with site specific standards (FW\*).
- I. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Polymer Based Coagulants With Median TRC Limits which Discharge into Saltwaters (Class SA & SB).

## **PREFACE**

The Pollution Control Act, Section 48-1-90(a) states:

It shall be unlawful for any person, directly or indirectly to throw, drain, run, allow to seep or otherwise discharge into the environment of the State organic or inorganic matter, including sewage, industrial wastes and other wastes, except as in compliance with a permit issued by the Department.

The State Primary Drinking Water Regulations, Section R.61-58.3.F states:

Waste handling and disposal practices shall meet all applicable rules and regulations of the Department. Provisions must be made for proper disposal of water treatment plant waste such as sanitary, laboratory, clarification sludge, softening sludge, iron sludge, filter backwash water, and brine waste. In locating waste disposal facilities, due consideration shall be given to preventing potential contamination of the water supply. For projects involving a surface water discharge of water treatment residuals or waste water, a National Pollutant Discharge Elimination System (NPDES) permit must be obtained from the Department. For projects involving land application of water treatment residuals or waste water, a No Discharge (ND) permit must be obtained from the Department.

This general permit for water treatment plant discharges is based upon the authority provided in the South Carolina NPDES Regulation 61-9, as amended. In the absence of promulgated guidelines for this category, best professional judgment (BPJ) was utilized to determine what pollutant parameters and limitations to apply to these types of discharges.

**Part I. DEFINITIONS**

Any term not defined in this Part has the definition stated in the Pollution Control Act or in “Water Pollution Control Permits”, R.61-9, or its normal meaning.

- A. "Act", or CWA, shall refer to the Clean Water Act (Formerly referred to as the Federal Water Pollution Control Act) Public Law 92-500, as amended.
- B. "Arithmetic Mean" for any set of values means the summation of the individual values divided by the number of individual values.
- C. "Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from material storage.
- D. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- E. "Composite sample" shall be defined as one of the following four types:
  - 1. An influent or effluent portion collected continuously over a specified period of time at a rate proportional to the flow.
  - 2. A combination of not less than 8 influent or effluent grab samples collected at regular (equal) intervals over a specified period of time and composited by increasing the volume of each aliquot in proportion to flow. If continuous flow measurement is not used to composite in proportion to flow, the following method will be used: An instantaneous flow measurement should be taken each time a grab sample is collected. At the end of the sampling period, the instantaneous flow measurements should be summed to obtain a total flow. The instantaneous flow measurement can then be divided by the total flow to determine the percentage of each grab sample to be combined. These combined samples form the composite sample.
  - 3. A combination of not less than 8 influent or effluent grab samples of equal volume but at variable time intervals that are inversely proportional to the volume of the flow. In other words, the time interval between aliquots is reduced as the volume of flow increases.
  - 4. If the effluent flow varies by less than 15 percent, a combination of not less than 8 influent or effluent grab samples of constant (equal) volume collected at regular (equal) time intervals over a specified period of time.
- F. "CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251, *et.seq.*

- G. "Daily Maximum" means the highest average value recorded of samples collected on any single day during the calendar month.
- H. "Daily minimum" is the lowest average value recorded of samples collected on any single day during the calendar month.
- I. "Department" shall refer to the South Carolina Department of Health and Environmental Control.
- J. "Director" means the EPA Regional Administrator or an authorized representative.
- K. "EPA" means the United States Environmental Protection Agency.
- L. "Geometric mean" of any set of values is the Nth root of the product of the individual values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered to be one (1).
- M. "Grab sample" is an individual, discrete or single influent or effluent portion of at least 100 milliliters collected at a time representative of the discharge and over a period not exceeding 15 minutes and retained separately for analysis. Instantaneous flow measured at the time of grab sample collection shall be used to calculate quantity, unless a totalizer is used.
- N. "Instantaneous maximum or minimum" means the highest or lowest value recorded of all samples collected during the calendar month.
- O. "Monthly Average", other than for fecal coliform, means the arithmetic mean of all samples collected in a calendar month period. The monthly average for fecal coliform bacteria is the geometric mean of all samples collected in a calendar month period. The monthly average loading is the arithmetic average of all individual loading determinations made during the month.
- P. "NOI" means notice of intent to be covered by this permit (see Part III of this permit.)
- Q. "NOT" means notice of termination (see Part VII of this permit.)
- R. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit.
- S. "Quarter" is defined as the first three calendar months beginning with the month that this permit becomes effective and each group of three calendar months thereafter.
- T. "Quarterly average" is the arithmetic mean of all samples collected in a quarter.
- U. "Regional Administrator" means the Regional Administrator of Region IV of the Environmental Protection Agency or the authorized representative of the Regional Administrator.

- V. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- W. "Significant Spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or Section 102 of CERCLA (see 40 CFR 302.4).
- X. "TRC" means Total Residual Chlorine.
- Y. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- Z. "Waters of the State" means all waters of the United States within the political boundaries of the State of South Carolina.
- AA. "Waters of the United States" means:
  - (a) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
  - (b) All interstate waters, including interstate "wetlands";
  - (c) All other waters such as interstate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, wet meadows, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:
    - (1) Which are or could be used by interstate or foreign travelers for recreational or other purposes;
    - (2) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
    - (3) Which are used or could be used for industrial purposes by industries in interstate commerce;
  - (d) All impoundments of waters otherwise defined as waters of South Carolina under this definition;
  - (e) Tributaries of waters identified in paragraphs (a) through (d) of this definition;



- (f) The territorial sea; and
- (g) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) through (f) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA, are not waters of South Carolina. This exclusion applies only to manmade bodies of water which neither were created originally in waters of South Carolina (such as disposal areas in wetlands) nor resulted from the impoundment of waters of South Carolina.

- BB. “Weekly average”, other than for fecal coliform, is the arithmetic mean of all the samples collected during a one-week period. The weekly average for fecal coliform is the geometric mean of all samples collected during a one-week period. For self-monitoring purposes, weekly periods in a calendar month are defined as three (3) consecutive seven day intervals starting with the first day of the calendar month and a fourth interval containing seven (7) days plus those days beyond the 28th day in a calendar month. The value to be reported is the single highest of the four (4) weekly averages computed during a calendar month. The weekly average loading is the arithmetic average of all individual loading determinations made during the week.

**Part II. COVERAGE UNDER THIS PERMIT**

A. **Permit Area.** The permit covers all areas of South Carolina, where the discharge is into FRESHWATER (Class FW or FW\*) or TIDAL SALTWATER (Class SA, SA\*, SB, or SB\*) as classified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *Regulation 61-69, Classified Waters*.

B. **Eligibility.**

1. This permit may cover all new and existing point source discharges of backwash, sedimentation washdown, and decant water from water treatment plants (or other covered activities) into waters of the state.
2. This permit is for discharges where the 7Q10 of the receiving stream will allow for median effluent TRC limits of 0.25 mg/l (Monthly Average) and 0.5 mg/l (Daily Maximum), based upon dilution. The effluent limit for TRC is based upon a maximum instream TRC concentration of 11 µg/l (Monthly Average) and 19 µg/l (Daily Maximum). The minimum dilution required to achieve this instream standard is 26.3:1.
3. This permit does not authorize discharges that are mixed with other wastewater discharges.
4. Types of Coverage: This permit authorizes discharge of the following types of wastewater as further specified in this permit:
  - a. Filter backwash water, sedimentation basin washdown, and decant from water treatment facilities (or other covered activities) using aluminum based coagulation agents.
  - b. Filter backwash water, sedimentation basin washdown, and decant from water treatment facilities (or other covered activities) using iron based coagulation agents.
  - c. Filter backwash water, sedimentation basin washdown, and decant from water treatment facilities (or other covered activities) using polymer based coagulation agents.
  - d. Filter backwash water, sedimentation basin washdown, and decant from treatment facilities using technologies designed for iron and/or manganese removal and/or softening without the addition of chemical coagulants.
  - e. Activities that involve aluminum based coagulation agents, iron based coagulation agents, polymer based coagulation agents, or other technologies designed for iron and/or manganese removal and/or softening without the addition of chemical coagulants which are associated with the operation and maintenance of water treatment facilities including collection and distribution systems.

5. Limitations on Coverage. The following water treatment plant discharges are not authorized by this permit:

- a. discharges that are:
  - (1) mixed with other discharges and process wastewater unless those discharges are in compliance with a different NPDES permit; or
  - (2) identified by and in compliance with Part IX.A;
- b. discharges which are subject to an existing effluent limitation guideline addressing them;
- c. discharges that are subject to an existing NPDES individual or general permit; are located at a facility where an NPDES permit has been terminated or denied; or which are issued a permit in accordance with Part V.S(Requirements for an Individual or an Alternative General Permit) of this permit. Such discharges may be authorized under this permit after an existing permit expires or is canceled;
- d. discharges for waters other than those described;
- e. discharges whose receiving waters are not FRESHWATER (Class FW or FW\*) or Tidal Saltwater (Class SA, SA\*, SB, or SB\*) as classified by *S.C. Reg. 61-68, Water Classifications and Standards* and *61-69, Classified Waters*. This permit does not authorize discharges to Trout Waters (Class TPGT or TN), Outstanding Resource Waters (Class ORW), or Shellfish Harvesting Waters (Class SFH) as classified by *S.C. Regulation 61-69*.
- f. discharges that the Department has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard; and
- g. discharges that would adversely affect a listed endangered or threatened species or its critical habitat.

C. **Authorization.**

- 1. Water treatment plant dischargers (or other covered activities) desiring coverage under this general permit must:
  - a. have submitted timely, appropriate reapplication forms for an existing individual permit or
  - b. (1) submit a Notice of Intent (NOI), for discharges as described in II.B, above, using completed Forms 1 and 2C, 1 and 2D, or 1 and 2E (or, if the above-mentioned forms have been submitted within the last five years and no action on the application has been taken by the Department, an NOI form provided by the Department (or photocopy thereof)), in accordance with the requirements of Part III of this permit, to be authorized to discharge under this general permit, or,
  - (2) submit a Notice of Intent (NOI) form provided by the Department.

2. Discharges for which individual permit applications have been submitted are authorized to discharge under the terms and conditions of this permit beginning on the date of written notice from the Department of such coverage.
3. Unless notified by the Department to the contrary, owners or operators who submit such notification are authorized to discharge under the terms and conditions of this permit on the first day of the first month at least sixty (60) days after the date that the NOI is postmarked.
4. The Department may deny coverage under this permit and require submittal of an application for an individual NPDES permit based on a review of the NOI or other information.

### **Part III. NOTICE OF INTENT REQUIREMENTS**

#### **A. Deadlines for Notification.**

1. Except as provided in Part III.A.2 (Late NOIs) or III.F (Transfer of Ownership or Control), operators of facilities who intend to obtain coverage for a new or existing water treatment plant discharge (or other covered activities) under this permit shall submit a Notice of Intent (NOI) in accordance with the requirements of this part at least sixty (60) days before coverage is desired;
2. An operator of a water treatment facility (or other covered activities) is not precluded from submitting an NOI in accordance with the requirements of this part after the effective date of this permit. In such instances, the Department may bring an enforcement action for failure to submit an NOI in a timely manner or for any unauthorized discharges of wastewaters that have occurred.

#### **B. Contents of Notice of Intent.** The Notice of Intent shall be signed in accordance with Part V.J (Signatory Requirements) of this permit and shall include the following information:

1. Name, mailing address, and location of the facility for which the notification is submitted. Location shall include latitude and longitude of the outfall(s) to the nearest 15 seconds and be shown on a US Geological Survey (USGS) topographic map (7 ½ or 15 minute quad);
2. The four 4-digit Standard Industrial Classification (SIC) code (4941) for water treatment facilities primarily engaged in distributing water for domestic, commercial, and industrial use;
3. The operator's name, address, telephone number, and status as Federal, State, private, public or other entity;
4. The permit number of additional NPDES permits for any discharges from the site that are currently, or have been previously, authorized by an NPDES permit;
5. The name of the receiving water(s), or if the discharge is through a separate storm sewer or drainage ditch, the name of the operator/owner of the storm sewer or drainage ditch and the receiving water(s) for the discharge through the separate storm sewer or drainage ditch;

6. In the event the applicant does not own all properties necessary to allow for direct discharge of wastewaters into Waters of the State, the Notice of Intent shall include a statement that all necessary easements have been obtained by the permittee for any conveyances of the discharge not on the property of the permittee and which do not constitute Waters of the State.
7. An indication of whether the owner or operator has existing quantitative data describing the concentration of pollutants in the discharges;
8. For facilities with an existing individual NPDES Permit that has an expiration date more than six (6) months beyond the date of the NOI, a statement that the contents of the previously submitted NPDES Permit application remain valid;

C. **Where to Submit.** Water facilities which discharge waters must use the appropriate NOI form provided by the DHEC/Bureau of Water/Water Facilities Permitting Division (or photocopy thereof). Forms are also available by calling (803) 898-4300. NOIs must be signed in accordance with Part V.J (Signatory Requirements) of this permit. NOIs are to be submitted to the Department in care of the following address:

SC Dept. of Health and Environmental Control  
Bureau of Water, NPDES Administration  
Notice of Intent/Water Treatment Plants  
2600 Bull Street  
Columbia, SC 29201

D. **Renotification.** Upon issuance of a new general permit, the permittee is required to notify the DHEC/Bureau of Water/Water Facilities Permitting Division of its intent to be covered by the new general permit.

E. **Individual Applications.** Any applicant eligible to apply for coverage under the general permit who has previously filed an individual application and has not received an NPDES permit can receive coverage under this general permit. To do so, a letter must be sent to the DHEC/Bureau of Water/Water Facilities Permitting Division requesting coverage in lieu of an individual permit.

F. **Transfer of Ownership or Control.**

1. Coverage under a general permit may be transferred to another party under the following conditions:
  - a. The permittee notifies the DHEC/Bureau of Water/Water Facilities Permitting Division of the proposed transfer at least thirty (30) days in advance of the proposed transfer date;
  - b. A written agreement is submitted to the DHEC/Bureau of Water/Water Facilities Permitting Division between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability for violations up to that date and thereafter.
  - c. An NOI is filed by the new owner.

2. Transfers are not effective if, within thirty (30) days of receipt of proposal, the DHEC/Bureau of Water/Water Facilities Permitting Division disagrees and notifies the current permittee of the intent to modify, revoke and reissue, or terminate the permit coverage and to require that a new application be filed.

#### **Part IV. MONITORING AND REPORTING REQUIREMENTS**

- A. **Facilities Required to Monitor.** All facilities covered by this permit are required to conduct sampling and analysis of their discharges. Part X of this permit contains specific numeric effluent limitations.
- B. **Representative Sampling.** Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- C. **Discharge Flow Measurement.** Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be present and used to insure the accuracy and reliability of measurements of the volume of monitored discharges.
  1. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with accepted capability of the type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than  $\pm 10$  % from the true discharge rates throughout the range of expected discharge volumes. The primary flow device must be accessible to the use of a continuous flow recorder. Where a flume is present, a separate stilling well for Department/EPA use must be provided if required by the Department.
  2. The permittee shall maintain at the permitted facility a record of the method(s) used in measuring the discharge flow(s) for the outfall(s) designated on the limits page(s) to monitor flow. Records of any necessary calibrations must also be kept. This information shall be made available for on-site review by Department personnel during normal working hours.
- D. **Reporting results.** Monitoring results obtained each month shall be recorded monthly on a Discharge Monitoring Report Form (EPA Form 3320-1) or other approved form. The form is to be signed by a person identified under Part V.J. The information is to be recorded and maintained on-site no later than the 28th day of the month following the month this permit becomes effective. These reports are to be submitted to the Department on a yearly basis according to the following schedule:
 

The permittee is required to submit monitoring results to the Department for results obtained during the reporting period running from August to July no later than the 28th day of the following August.

The first report may have less than twelve months of data. The reports shall also be available for on-site review by the Department. The Department may request submission of the Discharge Monitoring Report Forms prior to the required submission date. Signed copies of discharge monitoring reports required as stated above, and all other reports required herein, shall be submitted to the Department at the following address:

SC Dept. of Health and Environmental Control  
Bureau of Water/Compliance Assurance Division  
Permit and Data Administration Section  
2600 Bull Street  
Columbia, SC 29201

E. **Additional Monitoring by the Permittee.** If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified herein, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (EPA-3320-1) or other approved form. Such increased frequency shall also be indicated. Additional or accelerated monitoring may be required to determine the nature and impact of a non-complying discharge on the environment or to determine if a single non-complying sample is representative of the long term condition (monthly average).

F. **Retention of Records.**

1. The permittee shall retain the BMP plan developed in accordance with this permit and records of all data used to complete the Notice of Intent to be covered by this permit for at least one (1) year after coverage under this permit terminates.
2. Records of monitoring information required by this permit related to the permittee's sludge use and disposal activities shall be retained for a period of at least five (5) years (or longer as required by R.61-9.503 or R.61-9.504).
3. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be explicitly modified by alternative provisions of this permit or extended by request of the Department at any time.

G. **Procedures for Monitoring.**

1. Monitoring results for wastewater must be conducted according to test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in R.61-9.503 or R.61-9.504, unless other test procedures have been specified in the permit.
2. Unless addressed elsewhere in this permit, the permittee shall use a sufficiently sensitive analytical method that achieves a value below the derived permit limit stated in Part X. If more than one method of analysis is approved for use, the Department recommends for reasonable potential determinations that the permittee use the method having the lowest detection limit. For the purposes of reporting analytical data on the Discharge Monitoring Report (DMR):

- (a) Analytical results below the lowest achievable detection limit from methods available in 40 CFR 136 or otherwise specified in the permit shall be reported as zero (0). Zero (0) shall also be used to average results which are below the lowest achievable detection limit. When zero (0) is reported or used to average results, the permittee shall report, in the "Comment Section" or in an attachment to the DMR, the analytical method used, the detection limit achieved, and the number of times non-detectable results were reported as zero (0).
  - (b) Analytical results above the lowest achievable detection limit from methods available in 40 CFR 136 or otherwise specified in the permit shall be reported as the value achieved. When averaging results using a value containing a "less than," the average shall be calculated using the value and reported as "less than" the average of all results collected.
3. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

H. **Records Contents.** Records of monitoring information shall include:

- 1. The date, exact place, and time of sampling or measurements;
- 2. The name(s) of the individual(s) who performed the sampling or measurements;
- 3. The date(s) analyses were performed;
- 4. The time(s) analyses were initiated;
- 5. The name(s) of the individual(s) who performed the analyses;
- 6. References and written procedures, when available, for the analytical techniques or methods used; and
- 7. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

I. **Availability of Reports.** Except for data determined to be confidential under Section 48-1-270 of the S.C. Pollution Control Act, all reports prepared in accordance with the terms and conditions of this permit shall be available upon request for public inspection at the offices of the DHEC/Bureau of Water and the Regional Administrator. As required by the CWA, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 48-1-340 of the S.C. Pollution Control Act.



## Part V. STANDARD PERMIT CONDITIONS

A. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the CWA and the S.C. Pollution Control Act and is grounds for enforcement action; for permit coverage termination; revocation and reissuance of an individual permit; or for denial of coverage under a permit renewal application.

1. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants and with standards for sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

*It is the responsibility of the permittee to have a treatment facility that will meet the final effluent limitations of this permit. The approval of plans and specifications by the DHEC/Bureau of Water/Water Facilities Permitting Division does not relieve the permittee of responsibility for compliance.*

2. Failure to comply with permit conditions or the provisions of this permit may subject the permittee to civil penalties under S.C. Code Section 48-1-330 or criminal sanctions under S.C. Code Section 48-1-320. Sanctions for violations of the Federal Clean Water Act may be imposed in accordance with the provisions of 40 CFR Part 122.41(a)(2) and (3).
3. A person who violates any provision of this permit, a term, condition or schedule of compliance contained within this NPDES permit, or the State law is subject to the actions defined in the State law.

B. **Duty to Reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration of this permit, the permittee must apply for and obtain a new permit. The DHEC/Bureau of Water/Water Facilities Permitting Division may not grant permission for applications to be submitted later than the expiration date of the existing permit.

C. **Continuation of the Expired General Permit.** This permit expires on the date specified on the cover page of this permit. However, coverage under an expired permit continues in force and effect until a new permit is issued. Any POTW with a current effective permit shall submit a new NOI in accordance with the requirements of Part III of this permit, using an NOI form provided by the DHEC/Bureau of Water/Water Facilities Permitting Division (or photocopy thereof) at least 180 days prior to the expiration date on the cover page to remain covered under the continued permit after the expiration date, unless permission for a later date has been granted by the Department. All other permittees with currently effective general permits shall submit a new NOI in accordance with the requirements of Part III of this permit, using an NOI form provided by the DHEC/Bureau of Water/Water Facilities Permitting Division (or photocopy thereof) 180 days before the existing permit expires, except that the Department may grant permission to submit an application later than the deadline for submission otherwise applicable, but no later than the expiration date. Facilities that have not obtained coverage under the permit by the expiration date cannot become authorized to discharge under the continued permit.

- D. **Need to Halt or Reduce Activity not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- E. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- F. **Proper Operation and Maintenance.**
1. The permittee shall at all times properly operate and maintain in good working order and operate as efficiently as possible all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective performance based on design facility removals, adequate funding, adequate operator staffing and training and also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
  2. Power Failures. In order to maintain compliance with effluent limitations and prohibitions of this permit, the permittee shall either:
    - a. provide an alternative power source sufficient to operate the wastewater control facilities;
    - b. or have a plan of operation which will halt, reduce, or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.
  3. If a treatment plant is present, the following conditions apply:
    - a. The permittee shall maintain at the permitted facility a complete Operations and Maintenance Manual for the treatment plant. The manual shall be made available for on-site review during normal working hours. The manual shall contain operation and maintenance instructions for all equipment and appurtenances associated with the treatment plant.
    - b. The permittee shall provide for the performance of routine treatment plant inspections by a certified operator of the appropriate grade. The inspection shall include, but is not limited to, areas which require a visual observation to determine efficient operations and for which immediate corrective measures can be taken using the O & M manual as a guide. All inspections shall be recorded and shall include the date, time and name of the person making the inspection, corrective measures taken, and routine equipment maintenance, repair, or replacement performed. The permittee shall maintain all records of inspections at the permitted facility as required by this permit. Records shall be made available for on-site review during normal working hours.

- c. The name and grade of the operator of record shall be submitted to DHEC/Bureau of Water/Water Enforcement Division prior to placing the facility into operation. A roster of operators associated with the facility's operation and their certification grades shall also be submitted with the name of the "operator-in-charge". Any changes in operator or operators shall be submitted to the Department as they occur.

G. **Property Rights**. This permit does not convey any property rights of any sort, or any exclusive privilege nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations.

H. **Duty to Provide Information**. The permittee shall furnish to the DHEC/Bureau of Water/Water Enforcement Division, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

I. **Inspection and Entry**. The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to do the following:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and Pollution Control Act, any substances or parameters at any location.

J. **Signatory Requirement**.

1. All Notices of Intent, Notices of Termination, applications, reports, certifications, or information submitted to the Department or that this permit requires to be maintained by the permittee shall be signed and certified.
  - a. Notices of Intent, Notices of Termination, Applications. All Notices of Intent, Notices of Termination, and permit applications shall be signed as follows:
    - (1) For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or
  - (b) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- (3) For a municipality, State, Federal, or other public agency or public facility: By either a principal executive officer, major, or other duly authorized employee or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
  - (a) The chief executive officer of the agency, or
  - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator, Region IV, EPA).
- b. All reports required by permits, and other information requested by the Department, shall be signed by a person described in Part V.J.1.a of this section, or by a duly authorized representative of that person. A person is a duly authorized representative if:
  - (1) The authorization is made in writing by a person described in Part V.J.1.a of this section;
  - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,
  - (3) The written authorization is submitted to the Department.
- c. Changes to authorization. If an authorization under Part V.J.1.b of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part V.J.1.b of this section must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

- d. Certification. Any person signing a document under Part V.J.1.a or b of this section shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
2. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

**K. Reporting Requirements.**

1. Planned changes to facility. The permittee shall give written notice to the DHEC/Bureau of Water/Water Facilities Permitting Division as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
  - a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in R 61-9.122.29(b); or
  - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under Part V.K.9 of this section.
  - c. The alteration or addition results in a significant change in the permittee's sludge or industrial sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan (included in the NPDES permit directly or by reference);
2. Change in Discharge. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any planned facility expansions, production increases, or process modifications which may result in a new or different discharge of pollutants must be reported by submission of an individual NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the DHEC/Bureau of Water/Water Facilities Permitting Division of such changes. Following such notice, the permittee may be required to obtain an individual NPDES Permit for the discharge.

3. Anticipated noncompliance. The permittee shall give advance notice to the DHEC/Bureau of Water/Water Enforcement Division of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Transfers. This permit is not transferable to any person except after written notice to the DHEC/Bureau of Water/NPDES Administration. The Department may require modification or revocation and reissuance of the permit to change the name of permittee and incorporate such other requirements as may be necessary under the Pollution Control Act and the Clean Water Act.
  - a. Transfers by modification. Except as provided in paragraph b of this section, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued (under R.61-9.122.62(e)(2)), or a minor modification made (under R.61-9.122.63(d)), to identify the new permittee and incorporate such other requirements as may be necessary under CWA.
  - b. Other transfers. As an alternative to transfers under paragraph a of this section, any NPDES permit may be transferred to a new permittee if:
    - (1) The current permittee notifies the DHEC/Bureau of Water/NPDES Administration at least 30 days in advance of the proposed transfer date in Part V.K.4.b(2) of this section;
    - (2) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
    - (3) Permits are non-transferable except with prior consent of the Department. A modification under this section is a minor modification which does not require public notice.
5. Monitoring reports. Monitoring shall be performed at the intervals specified elsewhere in this permit and reported yearly.
  - a. Monitoring results must be reported on a Discharge Monitoring Report (DMR) or on forms provided or specified by the Department for reporting results of monitoring of sludge use or disposal practices including the following:
    - (1) Effluent Monitoring: Effluent monitoring results obtained at the required frequency shall be recorded monthly and maintained on-site no later than the 28th day of the month following the month this permit becomes effective. These reports are to be submitted to the Department on a yearly basis. The permittee is required to submit monitoring results to the Department for results obtained during the reporting period running from August to July no later than the 28th day of the following August.

The first report may have less than twelve months of data. The reports shall also be available for on-site review by the Department. The Department may request submission of the Discharge Monitoring Report Forms prior to the required submission date. Signed copies of discharge monitoring reports required as stated above, and all other reports required herein, shall be submitted to the Department at the following address:

S.C. Department of Health and Environmental Control  
Bureau of Water/Compliance Assurance Division  
Permit and Data Administration Section  
2600 Bull Street  
Columbia, South Carolina 29201

- (2) Groundwater Monitoring: Groundwater monitoring results obtained at the required frequency shall be reported on a Groundwater Monitoring Report Form (DHEC 2110) postmarked no later than the 28th day of the month following the end of the monitoring period. One original and one copy of the Groundwater Monitoring Report Form (DHEC 2110) shall be submitted to:

S.C. Department of Health and Environmental Control  
Bureau of Water/Water Monitoring, Assessment and Protection Division  
Groundwater Quality Section  
2600 Bull Street  
Columbia, South Carolina 29201

- (3) Sludge, Biosolids and/or Soil Monitoring: Sludge, biosolids and/or soil monitoring results obtained at the required frequency shall be reported in a laboratory format postmarked no later than the 28th day of the month following the end of the monitoring period. Two copies of these results shall be submitted to:

S.C. Department of Health and Environmental Control  
Bureau of Water/Water Enforcement Division  
Water Pollution Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

- (4) All other reports required by this permit shall be submitted at the frequency specified elsewhere in the permit to:

S.C. Department of Health and Environmental Control  
Bureau of Water/Water Enforcement Division  
Water Pollution Enforcement Section  
2600 Bull Street  
Columbia, South Carolina 29201

- b. If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in R.61-9.503 or R.61-9.504, or as specified in the permit, all valid results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Department. In addition, results from all invalid results must be appended to DMRs. The permittee has sole responsibility for scheduling analyses so as to ensure there is sufficient opportunity to complete and report the required number of valid results for each monitoring period.
  - c. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean, unless otherwise specified by the Department in the permit.
6. Twenty-four hour reporting.
- a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally to the local DHEC office and the DHEC/Bureau of Water/Water Enforcement Division within 24 hours from the time the permittee becomes aware of the circumstances. During normal working hours, call 803-898-4300. After-hour reporting should be made to the 24-Hour Emergency Response telephone number 803-253-6488 or 1-888-481-0125. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances to the address in Part V.K.5.a(4). The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
  - b. The following shall be included as information which must be reported within 24 hours under this paragraph.
    - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit. (See R.61-9.122.44(g)).
    - (2) Any upset which exceeds any effluent limitation in the permit.
    - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours (See R 61-9.122.44(g)).
  - c. The Department may waive the written report on a case-by-case basis for reports under Part V.K.6.b of this section if the oral report has been received within 24 hours.
7. Other noncompliance. The permittee shall report all instances of noncompliance not reported under Part V.K.5 and 6 of this section and Part IV at the time monitoring reports are submitted. The reports shall contain the information listed in Part V.K.6 of this section.



8. Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information to the DHEC/Bureau of Water/Water Facilities Permitting Division. This information may result in permit modification, revocation and reissuance, or termination in accordance with Regulation 61-9.
9. Domestic treatment works. All permittees must provide adequate notice to the DHEC/Bureau of Water/Water Facilities Permitting Division of the following:
  - a. Any new introduction of pollutants into the wastewater treatment facility (WWTF) from an indirect discharger which would be subject to sections 301 or 306 of CWA if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into that WWTF by a source introducing pollutants into the WWTF at the time of issuance of the permit.
  - c. For purposes of this paragraph, adequate notice shall include information on:
    - (1) The quality and quantity of effluent introduced into the WWTF, and
    - (2) Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the WWTF.

**L. Bypass.**

1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Part V.L.2 and 3 of this section.
2. Notice.
  - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least ten days before the date of the bypass to the DHEC/Bureau of Water/Water Facilities Permitting Division.
  - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part V.K.6, above.
3. Prohibition of bypass
  - a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
    - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
    - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been

installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required under Part V.L.2 of this section.

- b. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in Part V.L.3.a of this section.

**M. Upset.**

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part V.M.3 of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
  - b. The permitted facility was at the time being properly operated; and
  - c. The permittee submitted notice of the upset as required in Part V.M.5.b(2) of this section.
  - d. The permittee complied with any remedial measures required under Part V.D of this section.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

N. **Permit Actions.** The permittee shall furnish to the Department within a reasonable time any relevant information which the Department may request to determine whether cause exists for revoking general permit coverage and issuing an individual permit, or terminating permit coverage, or to determine compliance with the permit.

**O. Misrepresentation of Information.**

1. Any person making application for a NPDES discharge permit or filing any record, report, or other document pursuant to a regulation of the Department, shall certify that all information contained in such document is true. All application facts certified to by the applicant shall be considered valid conditions of the permit issued pursuant to the application.
2. Any person who knowingly makes any false statement, representation, or certification in any application, record, report, or other documents filed with the Department pursuant to the State law, and the rules and regulations pursuant to that law, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for pursuant to 48-1-320 or 48-1-330.

P. **Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under Section 311 of the CWA, the S.C. Pollution Control Act, or applicable provisions of the S.C. Hazardous Waste Management Act and the S.C. Oil and Gas Act.

Q. **Changes in Discharges of Toxic Pollutants or Hazardous Substances.**

1. The permittee shall notify the DHEC/Bureau of Water/Water Facilities Permitting Division as soon as it knows or has reason to believe that any activity has occurred or will occur which would result in the discharge in any outfall of:
  - a. Any toxic pollutant(s) identified under Section 307(a) of the CWA which exceed the highest of the following concentrations and are not limited in the permit.
    - (1) 1.0 mg/l for antimony (Sb);
    - (2) 0.500 mg/l for 2,4-dinitrophenol or 2-methyl,-4,6-dinitrophenol;
    - (3) 0.200 mg/l for acrolein or acrylonitrile;
    - (4) 0.100 mg/l for any other toxic pollutant; or,
    - (5) Ten (10) times the maximum concentration value reported in the permit application.
  - b. Any hazardous substance(s) identified under Section 311 of the CWA as determined by Federal Regulation 40 CFR 117.
2. The permittee must notify the DHEC/Bureau of Water/Water Facilities Permitting Division as soon as it knows or has reason to believe that it has begun or expects to begin to use or manufacture as an intermediate or final product or by-product any toxic pollutant or hazardous substance which was not reported in the permit application.

R. **Onshore and Offshore Construction.** The issuance of coverage under this permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in navigable waters.

S. **Requirements for an Individual Permit or an Alternative General Permit.**

1. The DHEC/Bureau of Water/Water Facilities Permitting Division may require any person authorized by this permit to apply for and/or obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the DHEC/Bureau of Water/Water Facilities Permitting Division to take action under this paragraph. The DHEC/Bureau of Water/Water Facilities Permitting Division may require any owner or operator authorized to discharge under this permit to apply for an individual NPDES permit only if the owner or operator

has been notified in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the owner or operator to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate.

Individual permit applications shall be submitted to the address shown in Part III.C (Where to Submit) of this permit. The DHEC/Bureau of Water/Water Facilities Permitting Division may grant additional time to submit the application upon request of the applicant. If an owner or operator fails to submit in a timely manner an individual NPDES permit application as required by the DHEC/Bureau of Water/Water Facilities Permitting Division, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified for application submittal.

2. Any owner or operator authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application (Form 1 and Form 2E) with reasons supporting the request to the DHEC/Bureau of Water/Water Facilities Permitting Division. Individual permit applications shall be submitted to the address in Part III.C of this permit. The request may be granted by the issuance of any individual permit or an alternative general permit if the reasons cited by the owner or operator are adequate to support the request.
3. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit, or the owner or operator is authorized for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When a new individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied coverage under an alternative NPDES general permit, coverage under this general permit is automatically terminated on the date of such denial, unless otherwise specified by the DHEC/Bureau of Water/Water Facilities Permitting Division.

**T. State/Environmental Laws.**

1. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the CWA.
2. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

**U. Areawide Water Quality Management Plan Conformance.** All water plant discharges given coverage under this permit are in compliance with the appropriate Areawide Water Quality Management Plan prepared pursuant to Section 208 of the CWA.

## V. **Removed Substances.**

Solids, sludges, filter backwash or other residuals removed in the course of treatment or control of wastewaters shall be disposed of in a manner so as to prevent such materials from entering State waters and in accordance with guidelines issued pursuant to Section 405 of the CWA, and the terms of a construction or NPDES and/or solid or hazardous waste permit issued by the Department.

## Part VI. **REOPENER CLAUSE**

- A. If there is evidence indicating potential or realized impacts on water quality due to any discharge covered by this permit, the owner or operator of such discharge may be required to obtain individual permit or an alternative general permit in accordance with Part V.S (Requiring an Individual Permit or Alternative General Permit) of this permit or the permit may be modified to include different limitations and/or requirements.
- B. This general permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any general permit condition.

## Part VII. **TERMINATION OF COVERAGE**

- A. **Notice of Termination.** Where all water plant discharges authorized by this permit are eliminated, the operator of the facility may submit a Notice of Termination that is signed in accordance with Part V.J (Signatory Requirements) of this permit. The Notice of Termination shall include the following information:
  1. Name, mailing address, and location of the facility for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the facility to the nearest 15 seconds;
  2. The four 4-digit Standard Industrial Classification (SIC) code (4941) for water treatment facilities primarily engaged in distributing water for domestic, commercial, and industrial use;
  3. The operator's name, address, telephone number, ownership status and status as Federal, State, private, public or other entity;
  4. The NPDES permit for the water plant discharge identified by the Notice of Termination; and
  5. The following certification signed in accordance with Part V.J (Signatory Requirements) of this permit:

"I certify under penalty of law that all discharges from the identified facility authorized by a NPDES general permit have been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge water plant wastewaters under this general permit, and that discharging pollutants to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit."

- B. **Address.** All Notices of Termination are to be sent, using the form provided by the Department (or a photocopy thereof), to the following address:

SC Dept. of Health and Environmental Control  
 Bureau of Water, NPDES Administration  
 Notice of Termination/Water Treatment Plants  
 2600 Bull Street  
 Columbia, SC 29201

## **Part VIII. SEVERABILITY**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

## **Part IX. SPECIAL CONDITIONS**

- A. **Prohibition of Other Discharges.** All discharges covered by this permit shall be composed entirely of water treatment plant wastewater or other activities noted in Part II.B.4.e, except discharges of other materials which are in compliance with an NPDES permit (other than this permit) issued for the discharge.
- B. **Releases in Excess of Reportable Quantities.**
1. The discharge of hazardous substances or oil in the discharge(s) from a facility shall be prevented or minimized in accordance with the applicable BMP plan for the facility. This permit does not relieve the permittee of the reporting requirements of 40 CFR Part 117 and 40 CFR Part 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302, occurs during a 24 hour period:
    - a. The discharger is required to notify both the Department's Emergency Response Section at **(803) 253-6488 or toll-free 1-888-481-0125** and the National Response Center (NRC) **(800) 424-8802** in accordance with the requirements of 40 CFR 117 and 40 CFR 302 as soon as he or she has knowledge of the discharge;
    - b. The BMP plan required under this permit must be modified within 14 calendar days of knowledge of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the recurrence of such releases and to respond to such releases, and the plan must be modified where appropriate; and

- c. The permittee shall submit within 14 calendar days of knowledge of the release a written description of the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and steps taken in accordance with Part IX.B.1.b (above) of this permit to both:

SCDHEC  
Emergency Response Section  
2600 Bull Street  
Columbia, SC 29201

and EPA Region IV  
Atlanta Federal Center  
61 Forsyth St., SW  
Atlanta, Ga. 30303

**C. Best Management Practices Plans.**

1. For activities covered under Part II.B.4.a-d, the permittee shall develop and implement a Best Management Practices (BMP) Plan, or update and maintain an existing plan, to identify and control the discharge of significant amounts of oils and the hazardous and toxic substances listed in 40 CFR Part 117 and Tables II and III of Appendix D to 40 CFR Part 122. The plan shall include a listing of all potential sources of spills or leaks of these materials, a method for containment, a description of training, inspection and security procedures, and emergency response measures to be taken in the event of a discharge to surface waters, or it shall include plans and/or procedures which constitute an equivalent BMP. Sources of such discharges may include materials storage areas; in-plant transfer, process and material handling areas; loading and unloading operations; plant site runoff; and sludge and waste disposal areas. The BMP plan shall be developed in accordance with good engineering practices, shall be documented in narrative form, and shall include any necessary plot plans, drawings, or maps.
2. Where no previous permit issued for the site has required a BMP plan, the BMP plan shall be developed no later than six months after the effective date of coverage of this permit, and shall be implemented no later than one year after the effective date of coverage of this permit. Where a plan has been required under a previous permit to the facility and after implementation of a plan, appropriate changes to the plan shall be developed and implemented before facility changes are put into operation.
3. The BMP plan shall be maintained at the plant site and shall be available for inspection by EPA and Department personnel.

**D. Activities Identified Under Part II.B.4.e.**

Permits for activities identified under Part II.B.4.e, by their nature, will be for a limited period. The expiration date of the permit for those covered activities will be specified on the permit and will not exceed the expiration date of the general permit. After the expiration date, the permittee must reapply for coverage under the general permit following procedures outline in Part III of this permit.

**Part X. NUMERIC EFFLUENT LIMITATIONS****A. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Aluminum-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 01A: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Other Units (Specify)</u>		<u>Measurement</u>	<u>Sample</u>
	<u>Monthly</u>	<u>Daily</u>	<u>Frequency</u>	<u>Type</u>
	<u>Average</u>	<u>Max.</u>		
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Total Aluminum	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	6.0 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **FRESHWATERS (Class FW)** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.



**B. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Aluminum-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 01B: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>		<u>Monitoring Requirements</u>	
	<u>Monthly</u> <u>Average</u>	<u>Daily</u> <u>Max.</u>	<u>Measurement</u> <u>Frequency</u>	<u>Sample</u> <u>Type</u>
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Total Aluminum	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	5.0 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **FRESHWATERS with site specific standards** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

**C. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Aluminum-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 01C: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>		<u>Monitoring Requirements</u>	
	<u>Monthly</u> <u>Average</u>	<u>Daily</u> <u>Max.</u>	<u>Measurement</u> <u>Frequency</u>	<u>Sample</u> <u>Type</u>
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Total Aluminum	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	6.5 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **TIDAL SALTWATERS (Class SA or SB)** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

**D. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Filtration for Iron Removal or Iron-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 02A: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>		<u>Monitoring Requirements</u>	
	<u>Monthly</u> <u>Average</u>	<u>Daily</u> <u>Max.</u>	<u>Measurement</u> <u>Frequency</u>	<u>Sample</u> <u>Type</u>
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Total Iron	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	6.0 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **FRESHWATERS (Class FW)** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

**E. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Filtration for Iron Removal or Iron-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 02B: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>		<u>Monitoring Requirements</u>	
	<u>Monthly</u> <u>Average</u>	<u>Daily</u> <u>Max.</u>	<u>Measurement</u> <u>Frequency</u>	<u>Sample</u> <u>Type</u>
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Total Iron	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	5.0 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **FRESHWATERS with site specific standards** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

**F. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Filtration for Iron Removal or Iron-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 02C: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Other Units (Specify)</u>		<u>Monitoring Requirements</u>	
	<u>Monthly</u> <u>Average</u>	<u>Daily</u> <u>Max.</u>	<u>Measurement</u> <u>Frequency</u>	<u>Sample</u> <u>Type</u>
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Total Iron	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	6.5 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **TIDAL SALTWATERS (Class SA or SB)** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

**G. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Polymer-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 03A: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Other Units (Specify)</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Monthly Average</u>	<u>Daily Max.</u>		
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	6.0 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **FRESHWATERS (Class FW)** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

H. **Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Polymer-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 03B: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Other Units (Specify)</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Monthly Average</u>	<u>Daily Max.</u>		
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	5.0 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **FRESHWATERS with site specific standards** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.

**I. Effluent Limitations and Monitoring Requirements for Filter Backwash Water, Sedimentation Basin Washdown, and Decant Water from Water Treatment Plants (or other covered activities) using Polymer-Based Coagulants With Median TRC Limits.**

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to discharge from outfall(s) serial number(s) 03C: treated filter backwash and sedimentation washdown.

Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Other Units (Specify)</u>		<u>Measurement Frequency</u>	<u>Sample Type</u>
	<u>Monthly Average</u>	<u>Daily Max.</u>		
Flow-m <sup>3</sup> /day (MGD)	MR <sup>a</sup>	MR <sup>a</sup>	1/Week	Instantaneous
TSS	30 mg/l	60 mg/l	1/Month	Grab
TRC	0.25 mg/l	0.50 mg/l	1/Month	Grab
Phosphate Phosphorus <sup>b</sup>	MR <sup>a</sup> (mg/l)	MR <sup>a</sup> (mg/l)	1/Month	Grab
pH <sup>c</sup>	6.5 su	8.5 su	1/Month	Grab

<sup>a</sup> MR = Monitor and Report only

<sup>b</sup> This parameter will apply only to those facilities which use phosphorus in their system.

<sup>c</sup> The designation of the receiving water shall be **TIDAL SALTWATERS (Class SA or SB)** as identified by *S.C. Regulation 61-68, Water Classifications and Standards*, and *S.C. Regulation 61-69, Classified Waters*.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the effluent cause a visible sheen on the receiving waters.
3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each outfall.



South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

## FACT SHEET

### **APPLICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT TO DISCHARGE TREATED WASTEWATER TO STATE WATERS**

Application No. SCG643000

Date: May 25, 2001

#### **1. SYNOPSIS OF APPLICATION**

a. Name and Address of Applicant

Those facilities which have discharges from water treatment plants (or other covered activities) with median total residual chlorine limits.

b. Facility Location

Within the geographic boundaries of the State of South Carolina.

c. Description of Applicant's Operation

This permit authorizes discharge of the following types of wastewater:

1. Filter backwash water, sedimentation basin washdown, and decant from water treatment facilities (or other covered activities) using aluminum based coagulation agents.
2. Filter backwash water, sedimentation basin washdown, and decant from water treatment facilities (or other covered activities) using iron based coagulation agents.
3. Filter backwash water, sedimentation basin washdown, and decant from water treatment facilities (or other covered activities) using polymer based coagulation agents.
4. Filter backwash water, sedimentation basin washdown, and decant from treatment facilities using technologies designed for iron and/or manganese removal and/or softening without the addition of chemical coagulants.

5. Activities that involve aluminum based coagulation agents, iron based coagulation agents, polymer based coagulation agents, or other technologies designed for iron and/or manganese removal and/or softening without the addition of chemical coagulants which are associated with the operation and maintenance of water treatment facilities including collection and distribution systems.

d. Receiving Water Name

FRESHWATERS, Class SA, and Class SB within the geographic boundaries of the State of South Carolina. Note: the classifications are defined in *S.C. Regulation 61-68, Water Classification and Standards*.

e. Description of Existing Pollution Abatement Facilities

Typically flocculation, sedimentation, filtration, and sedimentation.

f. Permitting Action

Reissuance of a General Permit for discharges from water treatment plants (or other covered activities) employing coagulants with median total residual chlorine limits in the State of South Carolina.

## **2. PROPOSED EFFLUENT LIMITATIONS**

See General Permit.

## **3. RATIONALE FOR DETERMINING EFFLUENT LIMITATIONS**

- a. Type of Wastewater: Discharges from water treatment facilities (or other covered activities) with median total residual chlorine limits:

- 1) Total Suspended Solids (TSS)

This Division recommends 30 mg/l monthly average and 60 mg/l daily maximum as a Best professional judgment (BPJ) for the treatment capabilities of wastewater treatment systems that are currently used in South Carolina for the treatment of water plant wastewater discharge. In the absence of promulgated guidelines, Best professional judgment (BPJ) is utilized to assist in determining what pollutant parameters and limitations apply to this type discharge.

## 2) Total Residual Chlorine (TRC)

For those facilities which cannot receive maximum TRC limits, but also are not required to achieve the lowest detection limit for TRC, a median TRC limit is established so that all water plants may be covered under general permits. This permit is for discharges where the 7Q10 of the receiving stream will allow for median effluent TRC limits of 0.25 mg/l (Monthly Average) and 0.5 mg/l (Daily Maximum), after considering dilution. The effluent limit for TRC is based upon a maximum instream TRC concentration of 0.011 mg/l (Monthly Average) and 0.019 mg/l (Daily Maximum). The TRC limits have been rounded to the lower 0.05 mg/l, as a best professional judgement (BPJ). Therefore, the median limits have been established as 0.25 mg/l monthly average and 0.5 mg/l daily maximum.

At the median effluent TRC limit of 0.25 mg/l (Monthly Average), the minimum dilution required to meet the instream standard of 0.011 mg/l (Monthly Average) can be easily calculated:  $0.25/0.011 = 22.7:1$ . Similarly, at the median effluent TRC limit of 0.5 mg/l (Daily Maximum), the minimum dilution required to meet the instream standard of 0.019 mg/l can be calculated:  $0.5/0.019 \text{ mg/l} = 26.3:1$ . Therefore, the critical factor necessary to comply with instream TRC standards is a minimum ratio of 26.3:1 between the 7Q10 and the effluent discharge. The 7Q10 is determined by the Department's Wasteload Allocation Section using United States Geological Survey data and the permit application which includes a map showing the discharge location. So long as the 7Q10 at the discharge point complies with the minimum dilution ratio of 26.3:1, the median TRC limits are protective of the receiving stream.

The chlorine limit for fire hydrant and waterline flushing is based on the Drinking Water, National Primary Drinking Water Regulations: Disinfectants and Disinfection Byproducts Final Rule which was published in the Federal Register on December 16, 1998. The maximum residual disinfectant level (MRDL) for chlorine is 4.0 mg/l.

## 3) pH

The *S.C. Water Classifications & Standards* (Reg. 61-68) instream standard for pH for a Class FRESHWATER stream is 6.0 to 8.5 standard units. Therefore the limit for pH shall be between 6.0 and 8.5 based on *S.C. Water Classifications & Standards* (Reg. 61-68).

The *S.C. Water Classifications & Standards* (Reg. 61-68) instream standard for pH for a Class FRESHWATER with a site specific standard stream is 5.0 to 8.5 standard units. Therefore the limit for pH shall be between 5.0 and 8.5 based on *S.C. Water Classifications & Standards* (Reg. 61-68).

The *S.C. Water Classifications & Standards* (Reg. 61-68) instream standard for pH for Class SA, SA\*, SB, and SB\* streams is 6.5 to 8.5 standard units. Therefore the limit for pH shall be between 6.5 and 8.5 based on *S.C. Water Classifications & Standards* (Reg. 61-68).

4) Total Aluminum

Due to Water Quality Criteria concerns for Aluminum, the permittee will be required to monitor and report for Aluminum as best professional judgment (BPJ). This limitation is based on the internal memo entitled Surface Intake Water Treatment Plants.

Note: This parameter applies only to those facilities which use aluminum-based coagulants in their system.

5) Total Iron

Due to the type of Iron present in the discharge, the permittee will be required to Monitor and Report for Iron based on BPJ. Should Iron become a concern this office may determine an individual permit is required.

Note: This parameter applies only to those facilities which use iron-based coagulants in their system.

6) Phosphate (Phosphorous)

Due to the presence of a phosphate corrosion inhibitor, this office will require the permittee to monitor and report for total phosphate as a best professional judgment (BPJ). This limitation is based on the internal memo entitled Surface Intake Water Treatment Plants.

Note: This parameter applies only to those facilities which use phosphorus in their system.

#### **4. MONITORING REQUIREMENTS**

a. Measurement Frequency:

Measurement Frequency shall be once per month, except for flow which is once per week.

b. Submission of Discharge Monitoring Reports:

Discharge monitoring reports are to be recorded and maintained on-site. The on-site data must be updated by the 28th day of each month to include the previous month's discharge monitoring report. These reports are to be submitted to the Department on a yearly basis. The reporting period runs from August to July and the discharge monitoring reports for this period are due the 28th day of the following August.

**5. SCHEDULE FOR MEETING LIMITS**

The permittee is to obtain compliance with the permit limitations and conditions on the effective date of the permit.

**6. PROPOSED SPECIAL CONDITIONS WHICH WILL HAVE A SIGNIFICANT IMPACT ON THE DISCHARGE**

Facilities which discharge to Outstanding Resource Waters, Trout Waters, or Shellfish Harvesting Waters are not eligible for this permit.

**7. PERMIT DURATION**

Up to five (5) years from the effective date of the permit.

**8. PUBLIC NOTICE INFORMATION**

Please refer to the attached Public Notice for details regarding the procedures for a final permit decision, deadline for comments and other information regarding the final permit. Contact person: Mike Montebello, SCDHEC/Bureau of Water/Water Facilities Permitting Division, (803)898-4300.